Chris Mills

List of Publications by Year
in descending order

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95	2,981	159585	189892
papers	citations	30 h-index	50 g-index

96	96	96	3897
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Triboelectric nanogenerators: providing a fundamental framework. Energy and Environmental Science, 2017, 10, 1801-1811.	30.8	186
2	High sensitivity organic inorganic hybrid X-ray detectors with direct transduction and broadband response. Nature Communications, 2018, 9, 2926.	12.8	166
3	Environmentally-induced fluctuations in year-class strength and their implications for management. Journal of Fish Biology, 1985, 27, 209-226.	1.6	153
4	â€˜Inorganics-in-Organicsâ€™: recent developments and outlook for 4G polymer solar cells. Nanoscale, 2013, 5, 8411.	5.6	147
5	Direct voltammetric determination of gold nanoparticles using graphite-epoxy composite electrode. Electrochimica Acta, 2005, 50, 3702-3707.	5.2	97
6	A unified theoretical model for Triboelectric Nanogenerators. Nano Energy, 2018, 48, 391-400.	16.0	96
7	Reproduction and life history. , 1991, , 483-508.		87
8	Stem cell differentiation by functionalized micro- and nanostructured surfaces. Nanomedicine, 2009, 4, 65-82.	3.3	86
9	Hybrid Grapheneâ€Metal Oxide Solution Processed Electron Transport Layers for Large Area Highâ€Performance Organic Photovoltaics. Advanced Materials, 2014, 26, 2078-2083.	21.0	86
10	Low cost micro-Coulter counter with hydrodynamic focusing. Microfluidics and Nanofluidics, 2007, 3, 171-176.	2.2	74
11	Memory effect in the currentâ€“voltage characteristic of a low-band gap conjugated polymer. Journal of Applied Physics, 2001, 90, 306-309.	2.5	65
12	Heavy metallic oxide nanoparticles for enhanced sensitivity in semiconducting polymer x-ray detectors. Nanotechnology, 2012, 23, 235502.	2.6	60
13	The band structure of graphene oxide examined using photoluminescence spectroscopy. Journal of Materials Chemistry C, 2015, 3, 12484-12491.	5.5	60
14	Variations in the sizes of gonads, eggs and larvae of the dace, Leuciscus leuciscus. Environmental Biology of Fishes, 1985, 13, 277-287.	1.0	59
15	Focused ion beam/scanning electron microscopy characterization of cell behavior on polymer micro-/nanopatterned substrates: A study of cellâ€“substrate interactions. Micron, 2008, 39, 111-116.	2.2	59
16	Characterization of thick film poly(triarylamine) semiconductor diodes for direct x-ray detection. Journal of Applied Physics, 2009, 106, .	2.5	57
17	The effect of extreme northerly climatic conditions on the life history of the minnow, Phoxinus phoxinus (L.). Journal of Fish Biology, 1988, 33, 545-561.	1.6	53
18	Graphene oxide hole transport layers for large area, high efficiency organic solar cells. Applied Physics Letters, 2014, 105, .	3.3	53

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19	Enhanced x-ray detection sensitivity in semiconducting polymer diodes containing metallic nanoparticles. Journal Physics D: Applied Physics, 2013, 46, 275102.	2.8	50
20	Production of structures for microfluidics using polymer imprint techniques. Microelectronic Engineering, 2005, 78-79, 695-700.	2.4	49
21	Achieving a Stable Time Response in Polymeric Radiation Sensors under Charge Injection by X-rays. ACS Applied Materials & Interfaces, 2010, 2, 1692-1699.	8.0	49
22	Mesenchymal stem cell differentiation on microstructured poly (methyl methacrylate) substrates. Annals of Anatomy, 2009, 191, 136-144.	1.9	44
23	Complex Microstructured 3D Surfaces Using Chitosan Biopolymer. Small, 2009, 5, 614-620.	10.0	43
24	THE INFLUENCE OF CLIMATE ON METABOLIC AND THERMAL RESPONSES OF INFANT CARIBOU. Canadian Journal of Zoology, 1961, 39, 845-856.	1.0	42
25	Thin film hexagonal gold grids as transparent conducting electrodes in organic light emitting diodes. Laser and Photonics Reviews, 2014, 8, 172-179.	8.7	42
26	An Experimental Study of the Population Dynamics of an Ectoparasitic Digenean, Transversotrema patialense: The Cercarial and Adult Stages. Journal of Animal Ecology, 1977, 46, 555.	2.8	39
27	Transparent micro- and nanopatterned poly(lactic acid) for biomedical applications. Journal of Biomedical Materials Research - Part A, 2006, 76A, 781-787.	4.0	36
28	Pt-free spray coated reduced graphene oxide counter electrodes for dye sensitized solar cells. Solar Energy, 2016, 137, 143-147.	6.1	35
29	Submerged Microcontact Printing (SÎ¼CP):Â An Unconventional Printing Technique of Thiols Using High Aspect Ratio, Elastomeric Stamps. Langmuir, 2005, 21, 12060-12063.	3.5	34
30	Electropolymerization of nano-dimensioned polypyrrole micro-ring arrays on gold substrates prepared using submerged micro-contact printing. Nanotechnology, 2007, 18, 485301.	2.6	34
31	Micro/Nanopatterning of Proteins via Contact Printing Using High Aspect Ratio PMMA Stamps and NanoImprint Apparatus. Langmuir, 2007, 23, 8614-8618.	3.5	32
32	Silver grid transparent conducting electrodes for organic light emitting diodes. Organic Electronics, 2014, 15, 3492-3500.	2.6	30
33	Millimeter-Scale Unipolar Transport in High Sensitivity Organicâ€“Inorganic Semiconductor X-ray Detectors. ACS Nano, 2019, 13, 6973-6981.	14.6	30
34	All-digital interface ASIC for a QCM-based electronic nose. Sensors and Actuators B: Chemical, 2004, 103, 31-36.	7.8	29
35	Microsystems for optical gas sensing incorporating the solvatochromic dye Nile Red. Sensors and Actuators B: Chemical, 2003, 92, 73-80.	7.8	28
36	Inverted Microcontact Printing on Polystyrene-block-Poly(tert-butyl acrylate) Films: A Versatile Approach to Fabricate Structured Biointerfaces Across the Length Scales. Langmuir, 2008, 24, 8841-8849.	3.5	28

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37	The attachment of dace, Leuciscus leuciscus L., eggs to the spawning substratum and the influence of changes in water current on their survival. Journal of Fish Biology, 1981, 19, 129-134.	1.6	27
38	The age, growth and reproduction of the stone loach Noemacheilus barbatulus (L.) in a Dorset chalk stream. Freshwater Biology, 1983, 13, 283-292.	2.4	27
39	Micro- and nanostructuring of poly(ethylene-2,6-naphthalate) surfaces, for biomedical applications, using polymer replication techniques. Nanotechnology, 2005, 16, 369-375.	2.6	27
40	Factors affecting the survival of dace, Leuciscus leuciscus (L.), in the early post-hatching period. Journal of Fish Biology, 1982, 20, 645-655.	1.6	26
41	Effects of space charge at the conjugated polymer/electrode interface. Journal of Applied Physics, 2002, 91, 5182-5189.	2.5	26
42	Density-Dependent Survival and Reproduction Within Populations of the Ectoparasitic Digenean Transversotrema patialense on the Fish Host. Journal of Animal Ecology, 1979, 48, 383.	2.8	23
43	A Multiplexed Impedance Analyzer for Characterizing Polymer-Coated QCM Sensor Arrays. IEEE Sensors Journal, 2006, 6, 996-1002.	4.7	23
44	Current and future uses of breath analysis as a diagnostic tool. Veterinary Record, 2004, 154, 353-360.	0.3	22
45	Microâ€•and nanostructuring of freestanding, biodegradable, thin sheets of chitosan via soft lithography. Journal of Biomedical Materials Research - Part A, 2008, 85A, 242-247.	4.0	21
46	Study on temperature dependent resistivity of indium-doped cadmium zinc telluride. Journal Physics D: Applied Physics, 2009, 42, 035105.	2.8	21
47	Directional Alignment of MG63 Cells on Polymer Surfaces Containing Point Microstructures. Small, 2007, 3, 871-879.	10.0	20
48	Direct detection of 6 MV x-rays from a medical linear accelerator using a semiconducting polymer diode. Physics in Medicine and Biology, 2013, 58, 4471-4482.	3.0	20
49	Atomic Force Microscopy Characterization of a Microcontact Printed, Selfâ€Assembled Thiol Monolayer for Use in Biosensors. Analytical Letters, 2006, 39, 1721-1734.	1.8	18
50	Focused ion beam production of nanoelectrode arrays. Materials Science and Engineering C, 2008, 28, 777-780.	7.3	17
51	Solution processed naphthalene diimide derivative as electron transport layers for enhanced brightness and efficient polymer light emitting diodes. Journal of Materials Chemistry C, 2013, 1, 3347.	5.5	16
52	Investigations into a low band gap, semiconducting polymer. Synthetic Metals, 1999, 102, 1000-1001.	3.9	15
53	Polymer-based micro-sensor paired arrays for the determination of primary alcohol vapors. Sensors and Actuators B: Chemical, 2007, 125, 85-91.	7.8	14
54	Influence of surface modification on vitality and differentiation of Caco-2 cells. Differentiation, 2007, 75, 308-317.	1.9	14

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55	Flexible radiation dosimeters incorporating semiconducting polymer thick films. Proceedings of SPIE, 2009, , .	0.8	14
56	Adsorbent 2D and 3D carbon matrices with protected magnetic iron nanoparticles. Nanoscale, 2015, 7, 17441-17449.	5.6	14
57	Physicochemical characterisation of reduced graphene oxide for conductive thin films. RSC Advances, 2018, 8, 37540-37549.	3.6	14
58	Forced Soft Lithography (FSL): Production of Microâ€•and Nanostructures in Thin Freestanding Sheets of Chitosan Biopolymer. Advanced Materials, 2007, 19, 3696-3701.	21.0	13
59	Controlled growth and spray deposition of silver nanowires for ITOâ€free, flexible, and high brightness OLEDs. Physica Status Solidi (A) Applications and Materials Science, 2017, 214, 1600561.	1.8	13
60	The use of high glass temperature polymers in the production of transparent, structured surfaces using nanoimprint lithography. Microelectronic Engineering, 2008, 85, 1897-1901.	2.4	12
61	The true status of solar cell technology. Nature Photonics, 2015, 9, 207-208.	31.4	12
62	Temperature-dependent survival and reproduction within populations of the ectoparasitic digenean Transversotrema patialense on the fish host. Parasitology, 1980, 81, 91-102.	1.5	11
63	Detection of Olfactory Receptor I7 Selfâ€Assembled Multilayer Formation and Immobilization Using a Quartz Crystal Microbalance. Analytical Letters, 2006, 39, 1735-1745.	1.8	11
64	Simultaneous biochemical and topographical patterning on curved surfaces using biocompatible sacrificial molds. Journal of Biomedical Materials Research - Part A, 2011, 98A, 229-234.	4.0	11
65	Hybrid metal grid-polymer-carbon nanotube electrodes for high luminance organic light emitting diodes. Nanotechnology, 2014, 25, 345202.	2.6	11
66	Simultaneous optical and electrical modeling of plasmonic light trapping in thin-film amorphous silicon photovoltaic devices. Journal of Photonics for Energy, 2015, 5, 057007.	1.3	10
67	Sharp High-Aspect-Ratio AFM Tips Fabricated by a Combination of Deep Reactive Ion Etching and Focused Ion Beam Techniques. Journal of Nanoscience and Nanotechnology, 2010, 10, 497-501.	0.9	9
68	Polymer-based technology platform for robust electrochemical sensing using gold microelectrodes. Sensors and Actuators B: Chemical, 2012, 161, 279-284.	7.8	9
69	High efficiency air stable organic photovoltaics with an aqueous inorganic contact. Nanoscale, 2015, 7, 14241-14247.	5.6	9
70	Metal-Carbon Interactions on Reduced Graphene Oxide under Facile Thermal Treatment: Microbiological and Cell Assay. Journal of Nanomaterials, 2017, 2017, 1-10.	2.7	9
71	Storage Lifetime of Polymer-Carbon Nanotube Inks for Use as Charge Transport Layers in Organic Light Emitting Diodes. Journal of Display Technology, 2014, 10, 125-131.	1.2	8
72	Nanoembossed Polymer Substrates for Biomedical Surface Interaction Studies. Journal of Nanoscience and Nanotechnology, 2007, 7, 4588-4594.	0.9	8

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73	Attachment and feeding of the adult ectoparasitic digenean Transversotrema patialense (Soparkar,) Tj ETQq1 1 0.784314 rgBT /Overlo 443-447.	1.9	7
74	Achieving 6.7% Efficiency in P3HT/Indeneâ€C₇₀ Bisadduct Solar Cells through the Control of Vertical Volume Fraction Distribution and Optimized Regioâ€Isomer Ratios. Advanced Electronic Materials, 2016, 2, 1600362.	5.1	7
75	X-ray micro-computed tomography as a non-destructive tool for imaging the uptake of metal nanoparticles by graphene-based 3D carbon structures. Nanoscale, 2019, 11, 14734-14741.	5.6	7
76	The electrical characteristics of a heterojunction diode formed from an aniline oligomer LB-deposited onto poly(3-methylthiophene). Journal of Materials Chemistry, 2000, 10, 91-97.	6.7	6
77	Langmuir and Langmuirâ€“Blodgett (LB) films of 4-dicyanomethylene,4H-cyclopenta[2,1â€“b,3,4â€“bâ€²]dithiophene. Thin Solid Films, 2000, 366, 249-254.	1.8	5
78	A Novel Point of Care Diagnostic Device: Impedimetric Detection of a Biomarker in Whole Blood. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2007, 2007, 115-8.	0.5	5
79	Characterization of a Self-Assembled Monolayer Based on a Calix[4]Crown-5 Derivate: Fabrication of a Chemical Sensor Sensitive to Calcium. Journal of Nanoscience and Nanotechnology, 2010, 10, 413-420.	0.9	5
80	Hybrid Multipixel Array X-Ray Detectors for Real-Time Direct Detection of Hard X-Rays. IEEE Transactions on Nuclear Science, 2020, 67, 2238-2245.	2.0	5
81	Continuous In-Line Chromium Coating Thickness Measurement Methodologies: An Investigation of Current and Potential Technology. Sensors, 2021, 21, 3340.	3.8	5
82	The preparation and characterisation of polymeric macrostructures (command surfaces) using electropolymerisation. Journal of Materials Chemistry, 2000, 10, 1551-1554.	6.7	4
83	All-polymer microfluidic particle size sorter for biomedical applications. Physica Status Solidi (A) Applications and Materials Science, 2006, 203, 1476-1480.	1.8	4
84	Multiplexed Frequency Spectrum Analyzer Instrumentation for the Characterization of Multiple QCM-Based Biosensors. , 2007, , .		4
85	Comparison of the x-ray spectroscopy response and charge transport properties of semi-insulating In/Al doped CdZnTe crystals. Journal of Applied Physics, 2009, 105, 083101.	2.5	4
86	Filtration properties of hierarchical carbon nanostructures deposited on carbon fibre fabrics. Journal Physics D: Applied Physics, 2015, 48, 115305.	2.8	4
87	Largeâ€Area, Nanoimprintâ€Assisted Microcontact Stripping for the Fabrication of Microarrays of Fouling/Nonfouling Nanostructures. Small, 2009, 5, 1133-1137.	10.0	3
88	Charge Funneling through Metal Electrode Structuring for Highâ€Efficiency Gains in Polymer Solar Cells. Advanced Electronic Materials, 2016, 2, 1600049.	5.1	3
89	Hybrid and Nano-composite Carbon Sensing Platforms. , 2015, , 105-132.		3
90	Structured Thin Organic Active Layers and Their Use in Electrochemical Biosensors. Measurement and Control, 2007, 40, 88-91.	1.8	2

#	Article	IF	Citations
91	Hybrid and nanocomposite materials for flexible organic electronics applications. , 2015, , 57-84.		2
92	Impedimetric microanalysis system for Deep Vein Thrombosis point-of-care testing. , 2008, 2008, 1856.		1
93	Improvement in the Electrical Properties of Nickelâ€Plated Steel Using Graphitic Carbon Coatings. Advanced Engineering Materials, 2019, 21, 1900408.	3.5	1
94	Effect of solution processed and thermally evaporated interlayers on the performance of backgrated polymer solar cells. Thin Solid Films, 2015, 591, 159-163.	1.8	0
95	Electrical Characterization and Analysis of Carbon Nanotube-Peptide Nucleic Acid Conjugates. Journal of Nanoelectronics and Optoelectronics, 2007, 2, 205-208.	0.5	0